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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/581,359	06/09/2000	CHRISTIAN MENZEL	P00.0622	7112
7590 03/01/2005			EXAMINER	
Kevin R. Spivak			GURSHMAN, GRIGORY	
	Morrison & Foerster LLP 2000 Pennsylvania Avenue, N.W.			PAPER NUMBER
Washington,, DC 20006-1888			2132	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)			
	09/581,359	MENZEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Grigory Gurshman	2132			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 18 August 2004.					
2a)⊠ This action is FINAL . 2b)☐ This	s action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the lead rawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Response to Arguments

- 1. With regard to the rejection of claims under 35 USC § 112, Applicant states that examiner appears to have failed to consider the Preliminary Amendment filed on 6/09/2000. Applicant states that the Preliminary Amendment addresses the concerns of 35 USC § 112 rejection. Examiner states that the Preliminary Amendment of 6/09/2000 had been considered prior to making the rejection in the first Office Action, however examiner maintains that the claims are generally narrative and indefinite, failing to conform with current U.S. practice.
- 2. Referring to claims 1-15, Applicant argues that the reasons for combining Diffie reference with Szabo would render the invention inoperative and simply does not make sense. With regard to this argument examiner points out that there is no substantial evidence that modifying the system for encryption of information for radio transmission and for authentication of subscribers by authenticating subscribers via subscriber identity mobile cards as taught in Szabo for accessing the radio network of the user group (see Szabo, column 1, lines 60-65) would render the invention inoperative.
- 3. In response to applicant's argument that combination of references simply does not make sense, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

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4. Applicant further argues that Szabo and Diffie cannot be combined since Szabo sues IMSI while Diffie uses SIM card. In response to applicant's argument that Szabo and Diffie is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Diffie, discloses a method for privacy and authentication in wireless networks (see abstract) and Szabo teaches the device comprising a subscriber data base (ID) and means (MM) for checking whether a transmitted subscriber identification (IMSI) authorizes a subscriber to access the radio system (PRS) – see abstract.

5. In view of the reason provided herein the rejection of claims 1-15 is maintained.

Claim Rejections - 35 USC § 112

6. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 8. Claims 1- 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Diffie (U.S. Patent No. 5.371.194) in view of Szabo (U.S. Patent No. 6.014.563).
- 9. Referring to the instant claims Diffie, discloses a method for privacy and authentication in wireless networks (see abstract).

Diffie teaches providing a secure wireless communication link between a mobile nomadic device and a base computing unit. A mobile sends a host certificate to the base along with a randomly chosen challenge value (CH1) and a list of supported shared key algorithms ("SKCS"). The base determines if the host certificate is valid. If the it is not valid, then the base unit rejects the connection attempt. The base then sends a random number (RN1) encrypted in mobile's public key and an identifier for the chosen SKCS to the mobile. The base saves the RN1 value and adds the CH1 value and the chosen SKCS to messages sent to the base. The mobile unit then validates the the certificate and if the certificate is valid, the mobile verifies under the public key of the base the signature on the message. The signature is verified by taking the base message and appending it to CH1 and the list of shared key algorithms that the mobile provided in the first message. If the base signature is not valid, then the communication attempt is aborted. In the event that the base signature is valid, the mobile determines the value of RN1 by decrypting Pub.sub.-- Mobile, RN1 under the private key of the mobile. The mobile then generates RN2 and the session key, and encrypts RN2 under the Pub.sub.-- Base. The mobile sends the encrypted RN2 and E(Pub.sub.-- Mobile,

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RN1) to the base. The base then verifies the mobile signature using the Pub.sub.-Mobile obtained from the Cert.sub.-- Mobile. If the mobile signature is verified, the base decrypts E(Pub.sub.-- Base, RN2) using its private key. The base then determines the session key. The mobile and base may then enter a data transfer phase using encrypted data which is decrypted using the session key which is RN1 .sym.RN2 (see column 1, lines 44-68 through column 2, lines 1-10).

Referring to the independent claims 1 and 12, the limitation "communication" 10. system comprising an access network ... having authentication equipment" is met by network 30 having authentication equipment in the base unit 27 (see Fig.3). The limitation "allocating a radio channel for the transmission of the information via a radio interface from/to base station of the access network" is met by the communication channel between the base (27) and the network (30) – see Fig.3. The limitation "... mutually transmitting public keys between a mobile station and the base station.." is met by the base station and the mobile unit exchanging the public keys (see Figs. 4b and 4c). The limitation "... encrypting subsequent information to be transmitted ... using one of the public keys received by the base station or the mobile station..." is shown in Figs 4b and 4c. The limitation "... deciphering encrypted information received by the mobile station or base station on the basis of a private key" is met by Fig 5b (block 3 from the top), which shows that base decrypts information received from the mobile station using private key. Diffie, however, does not explicitly teach authenticating the subscriber based on the subscriber identity mobile card.

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11. Referring to the instant claims Szabo discloses a radio system for a closed user group (see abstract and Fig.1). Szabo teaches the device comprising a subscriber data base (ID) and means (MM) for checking whether a transmitted subscriber identification (IMSI) authorizes a subscriber to access the radio system (PRS) – see abstract and Fig.1. Szabo teaches that subscribers who belong to the closed user group have an authorization card, on which a subscriber identification IMSI is stored, which authorizes the subscriber to access the radio network. The radiotelephone MS with the cardreading device conforms to the GSM standard and can thus also be used for the GSM mobile-radio system (see column 2, lines 51-57). Therefore, at the time the invention was made, it would have been obvious to one of ordinary skill in the art to modify the system for encryption of information for radio transmission and for authentication of subscribers of Diffie by authenticating subscribers via subscriber authorization cards (i.e. identity mobile cards) as taught in Szabo. One of ordinary skill in the art would have been motivated to modify the system for encryption of information for radio transmission and for authentication of subscribers by authenticating subscribers via subscriber identity mobile cards as taught in Szabo for accessing the radio network of the user group (see Szabo, column 1, lines 60-65).

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- 12. Referring to claims 2-5, Diffie teaches sending a plurality of keys from the mobile to base and from base to mobile see SKCS list in Figs. 4a and 4b.
- 13. Referring to claim 6, Diffie teaches returning an authentication reply by the authentication equipment (see abstract and Fig. 5a).

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14. Referring to claim 7, Diffie teaches "checking the subscriber identity by an

authentication procedure..." – see Figs. 5a and 5b.

15. Referring to claim 8, Diffie teaches the use of shared (i.e. secret keys) - see

abstract.

16. Referring to claims 9 –11, 13 and 14, Diffie shows servicing different networks with

plurality of subscribers (see Fig. 3).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Grigory Gurshman whose telephone number is

(571)272-3803. The examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gilberto Barron can be reached on (571)272-3799. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

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Grigory Gurshman

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